

PhD Program: Ecology and Environmental Protection

Professional Branch: 4.4. Earth Sciences

Major Field of Study: Ecology and Environmental Protection

Faculty: Mathematics and Natural Sciences

Department: Geography, Ecology and Environmental protection

Brief Annotation: Aim of the PhD Program in Ecology and Environment Protection is to prepare experts, by ensuring high-level education in both theoretical and applied scientific topics in the area of: Pollution and protection of air, pollution and protection of water resources, pollution and protection of soil resources, Legislation, causes and sources of pollution of air, water and soils, tools and approaches for reducing and limiting the harmful effects of pollution and peculiarities protection activities on air, water and soil, Databases , Multimedia, Monitoring and management of ecosystems, by observing the model of sustainable development, Energy problem and its solution by switching from non-renewable to renewable sources of energy , Principles for biodiversity conservation, Reaching the final conservation and administrative provision of biodiversity conservation, The impact of waste on the environment, Waste management, Introduction of non-waste technology, Mathematical models in waste minimization and use them as secondary natural resources, etc.

Competences of PhD students completed this program:

PhD students, completed this program, can apply advanced methods and approaches to the conservation of the components of the environment, to assess the pollution of air, water and soils, including the impacts on ecosystems, to participate in elaboration of approaches to managing the environment, to participate in research in the field of ecology and environmental protection, to prepare databases, etc.

Curriculum:

PhD students' education is based on an individual curriculum, approved by the Faculty Council, which is developed according to the topic of PhD Dissertation. Assessment is made by exam on the basis of six-grade system.

Sample list of courses

- Pollution and protection of air - Prof. Luben Elenkov, PhD
- Pollution and water protection – Assoc. Prof. eng. Mihail Mihailov, PhD
- Pollution and Soil Conservation - Dr. Boyko Kolev, PhD
- Principles for the conservation of biodiversity – Assoc. Prof. eng. Konstantin Tyufekchiev, PhD
- Impact of waste on the environment – Assoc. Prof. eng. Stefka Tsekova, PhD
- English
- Russian or Another Foreign Language

In the Individual Curriculum of a PhD student, several courses are included among the courses of the above Sample list of courses and/or other courses, proposed and approved by the graduate advisor, the Department Council of Department of Geography, Ecology and Environmental protection and Faculty Council of Faculty of Mathematics and Natural Sciences, as well as Foreign Language.

Graduation:

- Exams from Individual Curriculum
- Defence of PhD Dissertation